

Title (en)

Valve assembly for modulating fuel flow to a gas turbine engine

Title (de)

Kraftstoffmodulationsventil einer Brennkraftmaschine

Title (fr)

Ensemble vanne de modulation de carburant pour turbine à gaz

Publication

EP 1803911 A3 20120222 (EN)

Application

EP 06025953 A 20061214

Priority

US 32120305 A 20051229

Abstract (en)

[origin: EP1803911A2] A valve assembly is disclosed for modulating the flow of fuel to a fuel nozzle at a high frequency or in a stepped manner to actively control combustion in a gas turbine engine which includes a valve housing defining an inlet portion for receiving fuel from a fuel source at an initial flow rate and an outlet portion for delivering fuel to a fuel nozzle at the initial flow rate or a modulated flow rate depending upon a detected combustion condition, and a mechanism disposed within the valve housing for modulating the flow rate of fuel to the outlet portion in response to a detected combustion condition.

IPC 8 full level

F02C 7/232 (2006.01); **F23N 1/00** (2006.01)

CPC (source: EP US)

F02C 7/232 (2013.01 - EP US); **F23N 1/005** (2013.01 - EP US); **F23N 2235/14** (2020.01 - EP US); **F23N 2235/16** (2020.01 - EP US); **F23N 2235/18** (2020.01 - EP US); **F23N 2235/24** (2020.01 - EP US); **F23N 2241/20** (2020.01 - EP US); **Y10T 137/87314** (2015.04 - EP US)

Citation (search report)

- [XY] EP 0188921 A2 19860730 - NIPPON DENSO CO [JP], et al
- [XY] US 2005166573 A1 20050804 - HOMMEMA EDWARD L [US]
- [Y] JP S5712103 A 19820122 - KOYO SEIKO CO
- [Y] US 2005247066 A1 20051110 - MYHRE DOUGLAS C [US]
- [Y] GB 2342782 A 20000419 - WYGNANSKI WLADYSLAW [GB]
- [A] WO 02086364 A1 20021031 - CAMCON LTD [GB], et al
- [A] US 4745739 A 19880524 - BEZARD JEAN-YVES L N [FR], et al
- [A] US 4976227 A 19901211 - DRAPER DAVID J [US]

Cited by

FR2936293A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1803911 A2 20070704; EP 1803911 A3 20120222; CA 2568371 A1 20070629; JP 2007182879 A 20070719; JP 4943832 B2 20120530; US 2007151252 A1 20070705; US 7665305 B2 20100223

DOCDB simple family (application)

EP 06025953 A 20061214; CA 2568371 A 20061117; JP 2006347058 A 20061225; US 32120305 A 20051229